

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number  
**WO 2004/002051 A3**

(51) International Patent Classification<sup>7</sup>: **H04L 7/00**,  
12/66, 12/28, 12/56, H04Q 7/20, 7/24, H04M 11/00

(21) International Application Number:  
PCT/US2003/019675

(22) International Filing Date: 20 June 2003 (20.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/390,811 21 June 2002 (21.06.2002) US

(71) Applicant (for all designated States except US): **THOMSON LICENSING S.A.** [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VERMA, Shaily**

[IN/IN]; A-305 "Glengate", Hiranandani Gardens, 76 Powai, Mumbai (IN). **WANG, Charles, Chuanming** [US/US]; 1504 Spearmint Circle, Jamison, PA 18929 (US).

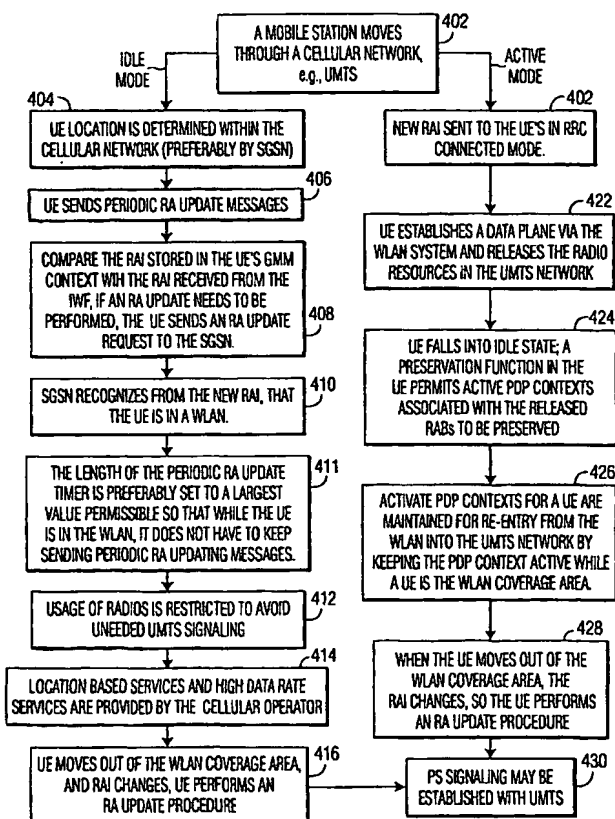
(74) Agents: **TRIPOLI, Joseph, S.** et al.; c/o Thomson Licensing Inc., Two Independence Way, Suite #200, Princeton, NJ 08540 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: REGISTRATION OF A WLAN AS A UMTS ROUTING AREA FOR WLAN-UMTS INTERWORKING



(57) Abstract: A system for employing a wireless local (Fig. 4) area network (WLAN) (14) as a cellular network routing area includes a cellular network (12), which is capable of determining a location where a service request is made. The cellular (12) network includes a packet-based support node B, which determines if the request can be serviced through a WLAN (14), which is identified in the cellular network (12) as a routing area. Packet data protocol (PDP) context is maintained while servicing the request using the WLAN (14) to provide smooth interworking between the WLAN (14) and the cellular network (12).

WO 2004/002051 A3